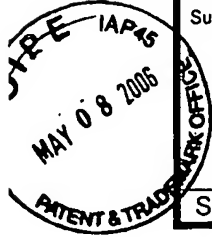


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Substitute for form 1449PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 13

**Complete if Known**

Application Number	10/661,402
Filing Date	September 12, 2003
First Named Inventor	Andrew Vaillant et al.
Art Unit	1648
Examiner Name	Sharon L. HURT
Attorney Docket Number	16051-7US CC

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
SH		US-5,563,050			
SH		US-6,506,559			
SH		US-5,023,252			
SH		US-5,580,859			
SH		US-4,806,463			
SH		US-5,248,670			
SH		US-5,591,720			
SH		US-5,952,490			
SH		US-5,998,602			
SH		US-6,184,369			
SH		US-5,264,423			
SH		US-5,276,019			
SH		US-6,316,190			
SH		US-5,218,103			
SH		US-5,684,148			
SH		US-5,452,496			
SH		US-5,278,302			
SH		US-5,750,666			
SH		US-5,602,244			
SH		US-5,508,270			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T*
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
SH		WO 03/02903				
SH		WO 99/32619				
SH		WO 01/75164				
SH		WO 92/03051				
SH		WO 94/17093				
SH		WO 94/02499				
SH		WO 94/26764				
SH		WO 97/13499				

Examiner Signature	Sharon Hurt	Date Considered	Dec 6, 2006
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Sheet	2	of	13	Attorney Docket Number	16051-7US CC

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SH		US-5,610,289			
SH		US-5,256,775			
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SH		US-5,476,925			
SH		US-5,023,243			
SH		US-5,130,302			
SH		US-5,177,198			
SH		US-5,378,825			
SH		US-5,386,023			
SH		US-5,489,677			
SH		US-5,264,562			
SH		US-5,264,564			
SH		US-5,223,618			
SH		US-5,770,713			
SH		US-5,543,152			
SH		US-4,426,330			
SH		US-4,534,899			
SH		US-5,705,188			
SH		US-5,013,556			

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		Country Code 3 - Number 4 - Kind Code 5 (if known)				
SH		WO 90/04384				
SH		WO 97/30731				
SH		EP 0 496 813 B1				
SH		EP 0 445 131 B1				
SH		WO 91/05545				
SH		WO 94/20073				
SH		WO 96/10391				
SH		WO 98/39352				

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				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Sharon L. HURT
				Attorney Docket Number	16051-7US CC
Sheet	3	of	13		

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SH		US-5,225,212			
SH		US-5,540,935			
SH		US-5,556,948			
SH		US-6,316,190			
SH		US-5,264,221			
SH		US-5,665,710			
SH		US-4,806,463			
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SH		US-5,591,623			
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SH		US-5,652,355			
SH		US-6,143,881			
SH		US-6,346,614			
SH		US-5,591,721			
SH		US-6,608,035			
SH		US-3,687,808			
SH		US-5,625,050			

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		Country Code3 - Number4 - Kind Code5 (if known)			
SH		WO 99/14226			
SH		WO 96/40062			
SH		WO 97/04787			
SH		WO 04/02419			

Examiner Signature	Sharon Hurt	Date Considered	Dec. 6, 2006
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				Application Number	10/661,402
				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Sharon L. HURT
Sheet	4	of	13	Attorney Docket Number	16051-7US CC

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SH		US-6,013,240			
SH		US-5,837,449			
SH		US-6,177,246			
SH		US-5,670,634			
SH		US-2003/232435			
SH		US-2003/0119019 A1			
SH		US-2003/0162225 A1			

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Examiner Signature	<i>Sharon Hurd</i>	Date Considered	<i>Dec 6, 2006</i>
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				Examiner Name	Sharon L. HURT
Sheet	5	of	13	Attorney Docket Number	16051-7US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
SH		ADJOU <i>et al.</i> , "A novel generation of heparan sulfate mimetics for the treatment of prion diseases", 2003, <i>J. Gen. Virol.</i> 84:2595-2603.	
SH		AGRAWAL, "Importance of nucleotide sequence and chemical modifications of antisense oligonucleotides", 1999, <i>Biochim. Biophys. Acta</i> 1489:53-68.	
SH		AGRAWAL and KANDIMALLA, "Antisense therapeutics: Is it as simple as complementary base recognition?", 2000, <i>Mol. Med. Today</i> 6:72-81.	
SH		AKHTAR <i>et al.</i> , "The delivery of antisense therapeutics", 2000, <i>Advanced Drug Delivery Reviews</i> 44:3-21.	
SH		ALLAKHVERDI <i>et al.</i> , "Inhibition of Antigen-induced Eosinophilia and Airway Hyperresponsiveness by Antisense Oligonucleotides Directed against the Common $\beta$ Chain of IL-3, IL-5, GM-CSF Receptors in a Rat Model of Allergic Asthma", 2002, <i>Am. J. Respir. Crit. Care Med.</i> 165:1015-1021.	
SH		ANDREOLA <i>et al.</i> , "DNA aptamers selected against the HIV-1 RNase H display in vitro antiviral activity", 2001, <i>Biochemistry</i> , 40:10087-10094.	
SH		BAKER <i>et al.</i> , "2-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 mRNA Level and Inhibit Formation of the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", 1997, <i>J. Biol. Chem.</i> 272 (18):11994-12000.	
SH		BALL <i>et al.</i> , "Clinical Potential of Respirable Antisense Oligonucleotides (RASONS) in Asthma", 2003, <i>Am. J. Pharmacogenomics</i> 3 (2):97-106.	
SH		BANKS <i>et al.</i> , "Delivery across the Blood-Brain Barrier of Antisense Directed against Amyloid $\beta$ : Reversal of Learning and Memory Deficits in Mice Overexpressing Amyloid Precursor Protein", 2001, <i>J. Pharmacol. Exp. Ther.</i> 297 (3):1113-1121.	
SH		BARDOS <i>et al.</i> , "Structure-Activity Relationships and Mode of Action of 5-Mercapto-Substituted Oligo- and Polynucleotides as Antitemplates Inhibiting Replication of Human Immunodeficiency Virus Type 1", 1992, <i>Antimicrob. Agents and Chemother.</i> 36 (1):108-114.	

Examiner Signature	Sharon Hurt	Date Considered	Dec. 6, 2006
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				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Sharon L. HURT
Sheet	6	of	13	Attorney Docket Number	16051-7US CC

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
SH		BARRET <i>et al.</i> , "Evaluation of Quinacrine Treatment for Prion Diseases", 2003, <i>J. of Virol.</i> 77 (15):8462-8469.	
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SH		BOUSSIF <i>et al.</i> , "A versatile Vector for Gene and Oligonucleotide Transfer into Cells in Culture and in vivo: Polyethylenimine", 1995, <i>Proc. Natl. Acad. Sci. USA.</i> 92 (16):7297-7301.	
SH		BRIGGER <i>et al.</i> , "Poly(ethylene glycol)-Coated Hexadecylcyanoacrylate Nanospheres Display a Combined Effect for Brain Tumor Targeting", 2002, <i>J. Pharmacol. Exp. Ther.</i> 303 (3):928-936.	
SH		CASPER, "Discovery of a Novel Target for Potential Cancer Therapy", Joint Bayer Science Forum – ACS November 24 <sup>th</sup> Dinner Meeting. 2003, The FILTERPAPER, Andy Edelbrock Bayer Corporation, page 3 (abstract).	
SH		CAUGHEY <i>et al.</i> , "Sulfated Polyanion Inhibition of Scrapie-Associated PrP Accumulation in Cultured Cells", 1993, <i>J. Virol.</i> 67 (2):643-650.	
SH		CHEN <i>et al.</i> , "Antisense Oligonucleotides Demonstrate a Dominant Role of c-Ki-RAS Proteins in Regulating the Proliferation of Diploid Human Fibroblasts", 1996, <i>J. Biol. Chem.</i> 271 (45):28259-28265.	
SH		CHEONG <i>et al.</i> , "Structure of influenza virus panhandle RNA studied by NMR spectroscopy and molecular modeling", 1999, <i>Nuc. Acids. Res.</i> 27 (5): 1392-1397.	
SH		CHIANG <i>et al.</i> , "Antisense Oligonucleotides Inhibit Intercellular Adhesion Molecule 1 Expression by Two Distinct Mechanisms", 1991, <i>J. Biol. Chem.</i> 266 (27):18162-18171.	
SH		CIOFFI <i>et al.</i> , "Selective Inhibition of A-Raf and C-Raf mRNA Expression by Antisense Oligodeoxynucleotides in Rat Vascular Smooth Muscle Cells: Role of A-Raf and C-Raf in Serum-Induced Proliferation", 1997, <i>Mol. Pharmacol.</i> 51:383-389.	

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SH		CROOKE et al., "In Vitro Toxicological Evaluation of ISIS 1082, a Phosphorothioate Oligonucleotide Inhibitor of Herpes Simplex Virus", 1992, <i>Antimicrob. Agents Chemother.</i> 36 (3):527-532.	
SH		DASS, "Vehicles for oligonucleotide delivery to tumours", 2002, <i>Journal of Pharmacy and Pharmacology</i> 54:3-27.	
SH		DASS, "Liposome-Mediated Delivery of Oligodeoxynucleotides In Vivo", 2002, <i>Drug Delivery</i> , 9:169-180.	
SH		DHEUR et al., "Polyethylenimine but Not Cationic Lipid Improves Antisense Activity of 3'-Capped Phosphodiester Oligonucleotides", 1999, <i>Antisense &amp; Nucleic Acid Drug Development</i> , 9:515-525.	
SH		DOH-URA et al., "Treatment of Transmissible Spongiform Encephalopathy by Intraventricular Drug Infusion in Animal Models", 2004, <i>J. Virol.</i> 78 (10):4999-5006.	
SH		ELBASHIR et al., "RNA interference is mediated by 21- and 22-nucleotide RNAs", 2001, <i>Genes &amp; Development</i> 15:188-200.	
SH		ELBASHIR et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", 2001, <i>Nature</i> 411:494-498.	
SH		FINOTTO et al., "Local administration of antisense phosphorothioate oligonucleotides to the c-kit ligand, stem cell factor, suppresses airway inflammation and IL-4 production in a murine model of asthma", 2001, <i>J. Allergy Clin. Immunol.</i> 107 (2):279-286.	
SH		FISSET et al., "Modulation of allergic response in nasal mucosa by antisense oligodeoxynucleotides for IL-4", 2003, <i>J. Allergy Clin. Immunol.</i> 111 (3):580-586.	
SH		GARRETT et al., "In vivo use of oligonucleotides to inhibit choroidal neovascularisation in the eye", 2001, <i>J. Gene Med.</i> 3:373-383.	

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				Filing Date	September 12, 2003
				First Named Inventor	Andrew Vaillant et al.
				Art Unit	1648
				Examiner Name	Sharon L. HURT
Sheet	8	of	13	Attorney Docket Number	16051-7US CC

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SH		GORLACH <i>et al.</i> , "Antisense repression in <i>Cryptococcus neoformans</i> as a laboratory tool and potential antifungal strategy", 2002, <i>Microbiology</i> 148:213-219.	
SH		GRIGORIEV <i>et al.</i> , "Effects of the polyene antibiotic derivative MS-8209 on the astrocyte lysosomal system of scrapie-infected hamsters", 2002, <i>J. Mol. Neurosci.</i> 18:271-281.	
SH		HARBOTH <i>et al.</i> , "Identification of essential genes in cultured mammalian cells using small interfering RNAs", 2001, <i>Journal of Cell Science</i> 114 (24) 4557-4565.	
SH		HORVATH <i>et al.</i> , "Potent inhibition of HIV-1 entry by (s <sup>4</sup> dU) <sub>35</sub> ", 2005, <i>Virology</i> 334:214-223.	
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SH		HUWYLER <i>et al.</i> , "Brain drug delivery of small molecules using immunoliposomes", 1996, <i>Proc. Natl. Acad. Sci. USA</i> 93:14164-14169.	
SH		INOUE <i>et al.</i> , "Synthesis and properties of novel nucleic acid probes", 1985, <i>Symposium Series - Nucleic Acids Research</i> No. 16:165-168.	
SH		INOUE <i>et al.</i> , "Sequence-dependent hydrolysis of RNA using modified oligonucleotide splints and RNase H", 1987, <i>FEBS Letters</i> 215 (2) :327-330.	
SH		JAASKELAINEN <i>et al.</i> , "A lipid carrier with a membrane active component and a small complex size are required for efficient cellular delivery of anti-sense phosphorothioate oligonucleotides", 2000, <i>European Journal of Pharmaceutical Sciences</i> 10:187-193.	
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SH		KURRECK, "Antisense technologies. Improvement through novel chemical modifications", 2003, <i>Eur. J. Biochem.</i> 270:1628-1644.	
SH		KUWASAKI <i>et al.</i> , "Inhibition of human immunodeficiency virus 1 replication <i>in vitro</i> by a self-stabilized oligonucleotide with 2'-O-methyl-guanosine-uridine quadruplex motifs", 2003, <i>J. Antimicrob. Chemother.</i> 51:813-819.	
SH		LAU <i>et al.</i> , "Abrogation of c-Raf expression induces apoptosis in tumor cells", 1998, <i>Oncogene</i> 16:1899-1902.	
SH		LEUNG and SHAH, in: <i>Controlled Release of drugs: Polymers and aggregate systems</i> , Rosoff, M., Ed., 1989, VCH Publishers, New York, pages 185-215.	
SH		LUO <i>et al.</i> , "Inhibition of influenza viral polymerases by minimal viral RNA decoys", 1997, <i>J. Gen. Virol.</i> 78: 2329-2333.	
SH		de MERGNY <i>et al.</i> , "Kinetics and thermodynamics of i-DNA formation: phosphodiester versus modified oligodeoxynucleotides", 1998, <i>Nucleic Acids Res.</i> 26 (21): 4797-4803.	
SH		de MONBRISON <i>et al.</i> , "Introducing antisense oligonucleotides into <i>Pneumocystis carinii</i> ", 2002, <i>J. Microbiol. Methods</i> 50:211-213.	
SH		MONIA <i>et al.</i> , "Evaluation of 2'-Modified Oligonucleotides Containing 2'-Deoxy Gaps as Antisense Inhibitors of Gene Expression", 1993, <i>J. Biol. Chem.</i> 268 (19):14514-14522.	
SH		MORASSUTTI <i>et al.</i> , "Effect of phosphorothioate modifications on the ability of GTn oligodeoxynucleotides to specifically recognize single-stranded DNA-binding proteins and to affect human cancer cellular growth" 1999, <i>Biochimie</i> 81:1115-1122.	

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SH		NAKAJIMA et al., "Results of Quinacrine Administration to Patients with Creutzfeldt-Jakob Disease", 2004, <i>Dement. Geriatr. Cogn. Disord.</i> 17:158-163.	
SH		NOGUCHI et al., "Remarkable induction of apoptosis in cancer cells by a novel cationic liposome complexed with a bcl-2 antisense oligonucleotide", 2003, <i>Journal of Controlled Release</i> 88:313-320.	
SH		NOONPAKDEE et al., "Inhibition of <i>Plasmodium falciparum</i> proliferation in vitro by antisense oligodeoxynucleotides against malarial topoisomerase II", 2003, <i>Biochem. and Biophys. Res. Commun.</i> 302:659-664.	
SH		O'BRIEN et al., "Antisense BCR-ABL Oligomers Cause Non-Specific Inhibition of Chronic Myeloid Leukemia Cell Lines", 1994, <i>Leukemia</i> 8 (12):2156-2162.	
SH		OMORI et al., "Targeting of post-ischemic cerebral endothelium in rat by liposomes bearing polyethylene glycol-coupled transferrin", 2003, <i>Neurol. Res.</i> 25:275-279.	
SH		Orum et al., "Locked nucleic acids: A promising molecular family for gene-function analysis and antisense drug development", 2001, <i>Current Opinion in Molecular Therapeutics</i> 3 (3):239-243.	
SH		PAN et al., "Isolation of virus-neutralizing RNAs from a large pool of random sequences", 1995, <i>Proc. Natl. Acad. Sci. USA</i> 92:11509-11513.	
SH		PAPUCCI et al., "Phosphodiester Oligonucleotides Inhibit Mitosis and Trigger Apoptosis by a Non-Antisense, p53-Mediated Mechanism", 2002, <i>Antisense &amp; Nucleic Acid Drug Development</i> 12:21-31.	
SH		PEREZ et al., "Sequence-independent induction of Sp1 transcription factor activity by phosphorothioate oligodeoxynucleotides", 1994, <i>Proc. Natl. Acad. Sci. USA</i> 91:5957-5961.	
SH		POLI et al., "In vitro Evaluation of the Anti-prionic Activity of Newly Synthesized Congo Red Derivatives", 2003, <i>Arzneim.-Forsch./Drug Res.</i> 53 (12):875-888.	

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SH		PROSKE <i>et al.</i> , "Prion-Protein-Specific Aptamer Reduces PrP <sup>Sc</sup> Formation", 2002, <i>Chemic. Biol.Chem.</i> 3:717-725.	
SH		RAMAZEILLES <i>et al.</i> , "Antisense phosphorothioate oligonucleotides: Selective killing of the intracellular parasite <i>Leishmania amazonensis</i> ", 1994, <i>Proc. Natl. Acad. Sci. USA</i> 91:7859-7863.	
SH		RHIE <i>et al.</i> , "Characterization of 2'-fluoro-RNA aptamers that bind preferentially to disease-associated conformations of prion protein and inhibit conversion", 2003, <i>J. Biol. Chem.</i> , 278 (41):39697-39705.	
SH		Rieger, in: <i>Pharmaceutical Dosage Forms</i> , Lieberman, Rieger and Banker (Eds), 1988, Marcel Dekker, INC., New York, NY, Vol. 1, pp. 285-366	
SH		ROH <i>et al.</i> , "Down-Regulation of HER2/ <i>neu</i> Expression Induces Apoptosis in Human Cancer Cells That Overexpress HER2/ <i>neu</i> ", 2000, <i>Cancer Research</i> 60:560-565.	
SH		ROSOFF, in: <i>Pharmaceutical Dosage Forms</i> , Lieberman, Rieger and Banker (Eds), 1988, Marcel Dekker, INC., New York, NY, Vol. 1, pp.245-282.	
SH		SCHMIDT <i>et al.</i> , "Drug targeting by long-circulating liposomal glucocorticosteroids increases therapeutic efficacy in a model of multiple sclerosis", 2003, <i>Brain</i> 126 :1895-1904.	
SH		SHYNG <i>et al.</i> , "Sulfated Glycans Stimulate Endocytosis of the Cellular Isoform of the Prion Protein, PrP <sup>C</sup> , in Cultured Cells", 1995, <i>J. Biol. Chem.</i> 270 (50) :30221-30229.	
SH		SIERAKOWSKA <i>et al.</i> , "Repair of thalassemic human $\beta$ -globin mRNA in mammalian cells by antisense oligonucleotides", 1996, <i>Proc. Natl. Acad. Sci. USA</i> 93:12840-12844.	

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SH		SUPATTAPONE et al., "Branched Polyamines Cure Prion-Infected Neuroblastoma Cells", 2001, <i>J. Virol.</i> 75 (7):3453-3461.	
SH		TCHATALBACHEV et al., "The packaging signal of influenza viral RNA molecules", 2001, <i>RNA</i> 7: 979-989.	
SH		UHLMANN and PEYMAN, "Antisense Oligonucleotides: A New Therapeutic Principle", 1990, <i>Chemical Reviews</i> 90 (4):544-584.	
SH		VAN DEVENTER et al., "A randomised, controlled, double blind, escalating dose study of alicaforsen enema in active ulcerative colitis", 2004, <i>Gut</i> . 53:1646-1651.	
SH		VINOGRADOV et al., "Nanogels for Oligonucleotide Delivery to the Brain", 2004, <i>Bioconjug. Chem.</i> 15:50-60.	
SH		WANG et al., "Sequence-independent Inhibition of In Vitro Vascular Smooth Muscle Cell Proliferation, Migration, and In Vivo Neointimal Formation by Phosphorothioate Oligodeoxynucleotides", 1996, <i>J. Clin. Invest.</i> 98 (2):443-450.	
SH		WHITE et al., "Inhibition of the Multiple Antibiotic Resistance ( <i>mar</i> ) Operon in <i>Escherichia coli</i> by Antisense DNA Analogs", 1997, <i>Antimicrobial Agents and Chemotherapy</i> 41 (12) :2699-2704.	
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SH		WHITE et al., "Antisense oligonucleotide treatments for psoriasis", 2004, <i>Expert. Opin. Biol. Ther.</i> 4(1):75-81.	

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SH		YU et al., "Hybrid Oligonucleotides: Synthesis, Biophysical Properties, Stability Studies, and Biological Activity", 1996, <i>Bioorganic. Med. Chem.</i> 4 (10):1685-1692.	
SH		YU et al., "Prediction of Clinical Responses in a Simulated Phase III Trial of Crohn's Patients Administered the Antisense Phosphorothioate Oligonucleotide ISIS 2302: Comparison of Proposed Dosing Regimens", 2003, <i>Antisense Nucleic Acid Drug Dev.</i> 13:57-66.	
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SH		ZHANG et al., "The Study on Brain Targeting of the Amphotericin B Liposomes", 2003, <i>J. Drug. Target.</i> 11 (2):117-122.	
SH		ZHANG et al., "Global Non-Viral Gene Transfer to the Primate Brain Following Intravenous Administration", 2003, <i>Mol. Ther.</i> 7 (1):11-18.	
SH		<i>The Concise Encyclopedia of Polymer Science and Engineering</i> , Jacqueline I. Kroschwitz, 1998, ISBN: 0-471-31856-6, 1341 pages, pp. 858-859.	

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